

PCP/09  
10/9/2001

CRF Errors Corrected by STIC Systems Branch

Serial Number: 09/890,813

CRF Processing Date:

Edited by:

Verified by:

(STIC stat)

Changed a file from non-ASCII to ASCII

**ENTERED**

Changed the margins in cases where the sequence text was "wrapped" down to the next line.

Edited a format error in the Current Application Data section, specifically:

Edited the Current Application Data section with the actual current number. The number inputted by the applicant was  the prior application data; or  other \_\_\_\_\_

Added the mandatory heading and subheadings for "Current Application Data".

Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

Changed the spelling of a mandatory field (the headings or subheadings), specifically:

Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:

Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

Inserted colons after headings/subheadings. Headings edited included: .....

Deleted extra, invalid, headings used by an applicant, specifically:

Deleted:  non-ASCII "garbage" at the beginning/end of files;  secretary initials/lilename at end of file;  
 page numbers throughout text;  other invalid text, such as \_\_\_\_\_

Inserted mandatory headings, specifically:

Corrected an obvious error in the response, specifically:

Edited identifiers where upper case is used but lower case is required, or vice versa.

Corrected an error in the Number of Sequences field, specifically:

A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

Deleted ending stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected:

Other:

Examiner: The above corrections must be communicated to the applicant in the first Office Action! DO NOT send a copy of this form.

3/195

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/890,813

DATE: 10/09/2001  
TIME: 14:25:06

Input Set : A:\PTO.AMC.txt  
Output Set: N:\CRF3\10092001\I890813.raw

3 <110> APPLICANT: E.I. du Pont de Nemours and Company  
 5 <120> TITLE OF INVENTION: Aspartate Kinase  
 7 <130> FILE REFERENCE: BB1430 PCT  
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/890,813  
 C--> 10 <141> CURRENT FILING DATE: 2001-08-02  
 12 <150> PRIOR APPLICATION NUMBER: 60/172944  
 13 <151> PRIOR FILING DATE: 1999-12-21  
 15 <160> NUMBER OF SEQ ID NOS: 24  
 17 <170> SOFTWARE: Microsoft Office 97  
 19 <210> SEQ ID NO: 1  
 20 <211> LENGTH: 565  
 21 <212> TYPE: DNA  
 22 <213> ORGANISM: Zea mays  
 24 <220> FEATURE:  
 25 <221> NAME/KEY: unsure  
 26 <222> LOCATION: (127)  
 28 <400> SEQUENCE: 1  
 29 gcacgagggtt gaagagcttg agaaaatgc aatttttgtt ctacttcagc agagggcgat 60  
 30 aattttcaattt atcggaaatgc tggagcaatc gtcttcata ctagaaaaaga cgggacgtgt 120  
 31 gctgagnngaa agtgggggtta atgttcagat gatctcgcaa ggagcgtcaa aggttaacat 180  
 32 gtcgctgata gtccatgata gcgtatgc aaaa ggcactcgta gaagcccttc atcaggcggt 240  
 33 ctttgaagac gatgtcctat cacaagtgc aagcggagaac ctactcggtt gctgatcaac 300  
 34 gttaggcgggtt ctgggtccag gcgtgttatac tgttatagat tcccactcgc ctccatgaac 360  
 35 ggcattggca ttggatcatt gatcatgttt tgcttggaaac aagtatgtt tccaggttct 420  
 36 cagccaatga ctgcggaaact gtgtttctgt tttagaaactg ttgcagaca ccagtggact 480  
 37 gcgagcaccg attgtcaaca agatggcaag cctgtgatat aattccaact gtctctaattc 540  
 38 aatatatata ataaacatta tcaat 565  
 41 <210> SEQ ID NO: 2  
 42 <211> LENGTH: 97  
 43 <212> TYPE: PRT  
 44 <213> ORGANISM: Zea mays  
 46 <220> FEATURE:  
 47 <221> NAME/KEY: UNSURE  
 48 <222> LOCATION: (42)  
 50 <400> SEQUENCE: 2  
 51 His Glu Val Glu Glu Leu Glu Lys Ile Ala Ile Val Arg Leu Leu Gln  
 52 1 5 10 15  
 54 Gln Arg Ala Ile Ile Ser Leu Ile Gly Asn Val Glu Gln Ser Ser Leu  
 55 20 25 30  
 57 Ile Leu Glu Lys Thr Gly Arg Val Leu Xaa Glu Ser Gly Val Asn Val  
 58 35 40 45  
 60 Gln Met Ile Ser Gln Gly Ala Ser Lys Val Asn Met Ser Leu Ile Val  
 61 50 55 60  
 63 His Asp Ser Asp Ala Lys Ala Leu Val Glu Ala Leu His Gln Ala Phe  
 64 65 70 75 80  
 66 Phe Glu Asp Asp Val Leu Ser Gln Val Glu Ala Glu Asn Leu Leu Val  
 67 85 90 95

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/890,813

DATE: 10/09/2001  
TIME: 14:25:06

Input Set : A:\PTO.AMC.txt  
Output Set: N:\CRF3\10092001\I890813.raw

69 Gly  
 73 <210> SEQ ID NO: 3  
 74 <211> LENGTH: 513  
 75 <212> TYPE: DNA  
 76 <213> ORGANISM: Zea mays  
 78 <220> FEATURE:  
 79 <221> NAME/KEY: unsure  
 80 <222> LOCATION: (474)  
 82 <400> SEQUENCE: 3  
 83 acagagcagg aggactcaga aatggcaatc ccagtgcgat cggctgccgc gccccccgc 60  
 84 ctcgttccgt cgataacctcc ggcgagctct ggacatgttc gaggactgac gtgcttcgg 120  
 85 acccgaaaccg ggcctcgccg tgcaagaggg ttgtcaatgg tggtcgcccga ctccaccagc 180  
 86 cgtcggggcca agcaagcggg cggcggggac ggcgtccttg gggcgccctgt tctcgaggg 240  
 87 ctcgggatgg agggattggg ggtatcagctc agcgtggta tgaagttcgg ggggtcctcg 300  
 88 gtgtcgtcgg ccgcgaggat ggctgaggtg gccggcctca tcctgacgtt ccccgaggag 360  
 89 cgcggcgtcg tcgttctctc tgccatgggg aaaaccacca acaaccttct ccttgctggg 420  
 90 agaaaaaggca ataagggtgtg gagtttatcat gttttctgaa atccgaagaa tggnatatgg 480  
 91 tcaaaaagcc taaaatatca aagtatccca act 513  
 94 <210> SEQ ID NO: 4  
 95 <211> LENGTH: 152  
 96 <212> TYPE: PRT  
 97 <213> ORGANISM: Zea mays  
 99 <400> SEQUENCE: 4  
 100 Thr Glu Gln Glu Asp Ser Glu Met Ala Ile Pro Val Arg Ser Ala Ala  
 101 1 5 10 15  
 103 Ala Pro Arg Arg Leu Val Pro Ser Ile Pro Pro Ala Ser Ser Gly His  
 104 20 25 30  
 106 Val Arg Gly Leu Ala Cys Phe Gly Thr Arg Thr Gly Pro Arg Gly Ala  
 107 35 40 45  
 109 Arg Gly Leu Ser Met Val Val Ala Asp Ser Thr Ser Arg Arg Ala Lys  
 110 50 55 60  
 112 Gln Ala Asp Gly Gly Asp Gly Val Leu Gly Ala Pro Val Leu Gly Gly  
 113 65 70 75 80  
 115 Leu Gly Met Glu Gly Leu Gly Asp Gln Leu Ser Val Val Met Lys Phe  
 116 85 90 95  
 118 Gly Gly Ser Ser Val Ser Ser Ala Ala Arg Met Ala Glu Val Ala Gly  
 119 100 105 110  
 121 Leu Ile Leu Thr Phe Pro Glu Glu Arg Pro Val Val Val Leu Ser Ala  
 122 115 120 125  
 124 Met Gly Lys Thr Thr Asn Asn Leu Leu Ala Gly Arg Lys Gly Asn  
 125 130 135 140  
 127 Lys Val Trp Ser Tyr His Val Phe  
 128 145 150  
 131 <210> SEQ ID NO: 5  
 132 <211> LENGTH: 1985  
 133 <212> TYPE: DNA  
 134 <213> ORGANISM: Zea mays  
 136 <220> FEATURE:  
 137 <221> NAME/KEY: unsure

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/890,813

DATE: 10/09/2001

TIME: 14:25:06

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\10092001\I890813.raw

138 <222> LOCATION: (532)  
 140 <220> FEATURE:  
 141 <221> NAME/KEY: unsure  
 142 <222> LOCATION: (1180)  
 144 <400> SEQUENCE: 5

145	gcaccagaca	gaggcaggagg	actcagaaat	ggcaatccca	gtgcgatcg	ctgccgcgcc	60
146	ccggccgcctc	gttccgtcga	tacctccggc	gagctctgga	catgttcgag	gactggcg	120
147	cttcggtaacc	cgaaccgggc	ctcgcgggtc	aagaggggtt	tcaatgggtt	tcgcgcactc	180
148	caccagccgt	cggggccaagc	aagcggacgg	cggggacggc	gtccttgggg	cgcctgttct	240
149	cggagggctc	gggatggagg	gattggggga	tcagctcage	gtggtgatga	agttcgaaaa	300
150	gtcctcggtt	tcgtcgcccg	cgaggatggc	tgaggtggcc	ggcctcatcc	tgacgttccc	360
151	cgaggagcgc	cccgtcgtcg	ttctctctgc	catggggaaa	accaccaaca	accttctcct	420
152	tgctggagag	aaggcagtag	ggtgtggagt	tatccatgtt	tctgaaatcg	aagagtggaa	480
153	tatggtcaaa	agcctacata	tcaagacggt	ggatgaactt	ggacttccaa	gnatctgtaa	540
154	tacaaggcctt	tatgaactgg	agcaactatt	gaaaggtatc	gctatgtat	aagagctgac	600
155	gcctaggacc	agtgactacc	ttgtttcatt	tggagaatgc	atgtccacca	ggattttttc	660
156	tgcttatttg	aacaaaattc	gtgtcaaggc	acggcagtt	gacgcattt	atattggttt	720
157	cattacaact	gatgaattt	gtaatgcgg	tatcttagaa	gcaacctatc	ctgctgttgc	780
158	gaagagactt	catggggact	ggatacagga	tccagcgata	cctgttgtt	ctgggttccct	840
159	tgggaaggc	tggaaatctg	gtgctgttac	tactttaggc	cgaggtggta	gtgacttgac	900
160	tgctacaacc	attggtaaaag	ccttggact	gagagaaatt	caggtatgg	aagatgttga	960
161	tggtgtactt	acttgttgc	caaatatcta	cccacatgca	aagactgttc	cataacttaac	1020
162	atttgaagag	gccacacaac	ttgcttattt	tgggtctcag	gttttgcattc	cacaatcgat	1080
163	gagacctgt	agagaaggt	atattccagt	taggttaag	aattcataca	accctaaagc	1140
164	tccaggcacc	tttattacca	gacaaagaga	catggataan	ggtctgggtt	tactaactag	1200
165	catagtgc	aatcaatgt	tcactatgtt	ggacattgt	agcactcg	tgcttggca	1260
166	gtatggttt	ctggcaaggg	tatcaggat	ttgttatatt	gaagatctat	gtatatctgt	1320
167	ggattgttt	gttaccatgt	aagttatgt	ttctgtgtca	cttgcattat	caaagatctg	1380
168	gagtagggaa	ctgatacagc	aggcaagtg	acttgaccat	gtagttgaag	agcttgagaa	1440
169	aatagcaatt	gttgcgttac	ttcagcagag	ggcgataatt	tcacttac	gaaatgttga	1500
170	gcaatcgct	ctgatactag	aaaagacgg	acgtgtctg	aggaaaaatg	gggttaatgt	1560
171	tcagatgtc	tcgcaaggag	cgtcaaagg	taacatgtc	ctgatagtcc	atgatagcga	1620
172	tgcaaaaggc	ctcgtagaa	cccttcatca	ggcgttctt	gaagacgat	tcctatcaca	1680
173	agtcgaagcg	gagaacctac	tctgggtc	atcaacgt	gtttgtt	gtccaggcgt	1740
174	gttatcttt	atagattccc	actcgctcc	atgaacgg	tggcattt	atcattgtc	1800
175	atgttttgc	tgaaacaagt	atgtcttca	ggttctcagc	caatgactc	aaaactgtt	1860
176	ttctgtttt	gaactgttt	cagacaccag	tgagctgc	gcaccgat	tcaacaagat	1920
177	ggcaaggcct	tgtatataatt	ccaaactgt	ctaataata	tatataataa	acattatcaa	1980
178	tatct						1985
181	<210>	SEQ ID NO:	6				
182	<211>	LENGTH:	560				
183	<212>	TYPE:	PRT				
184	<213>	ORGANISM:	Zea mays				
186	<220>	FEATURE:					
187	<221>	NAME/KEY:	UNSURE				
188	<222>	LOCATION:	(168)	/			
190	<220>	FEATURE:					
191	<221>	NAME/KEY:	UNSURE				
192	<222>	LOCATION:	(384)				

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/890,813

DATE: 10/09/2001  
TIME: 14:25:06

Input Set : A:\PTO.AMC.txt  
Output Set: N:\CRF3\10092001\I890813.raw

194 <400> SEQUENCE: 6  
 195 Met Ala Ile Pro Val Arg Ser Ala Ala Ala Pro Arg Arg Leu Val Pro  
 196 1 5 10 15  
 198 Ser Ile Pro Pro Ala Ser Ser Gly His Val Arg Gly Leu Ala Cys Phe  
 199 20 25 30  
 201 Gly Thr Arg Thr Gly Pro Arg Gly Ala Arg Gly Leu Ser Met Val Val  
 202 35 40 45  
 204 Ala Asp Ser Thr Ser Arg Arg Ala Lys Gln Ala Asp Gly Gly Asp Gly  
 205 50 55 60  
 207 Val Leu Gly Ala Pro Val Leu Gly Gly Leu Gly Met Glu Gly Leu Gly  
 208 65 70 75 80  
 210 Asp Gln Leu Ser Val Val Met Lys Phe Gly Gly Ser Ser Val Ser Ser  
 211 85 90 95  
 213 Ala Ala Arg Met Ala Glu Val Ala Gly Leu Ile Leu Thr Phe Pro Glu  
 214 100 105 110  
 216 Glu Arg Pro Val Val Val Leu Ser Ala Met Gly Lys Thr Thr Asn Asn  
 217 115 120 125  
 219 Leu Leu Ala Gly Glu Lys Ala Val Gly Cys Gly Val Ile His Val  
 220 130 135 140  
 222 Ser Glu Ile Glu Glu Trp Asn Met Val Lys Ser Leu His Ile Lys Thr  
 223 145 150 155 160  
 225 Val Asp Glu Leu Gly Leu Pro Xaa Ile Cys Asn Thr Ser Leu Tyr Glu  
 226 165 170 175  
 228 Leu Glu Gln Leu Leu Lys Gly Ile Ala Met Met Lys Glu Leu Thr Pro  
 229 180 185 190  
 231 Arg Thr Ser Asp Tyr Leu Val Ser Phe Gly Glu Cys Met Ser Thr Arg  
 232 195 200 205  
 234 Ile Phe Ser Ala Tyr Leu Asn Lys Ile Arg Val Lys Ala Arg Gln Tyr  
 235 210 215 220  
 237 Asp Ala Phe Asp Ile Gly Phe Ile Thr Thr Asp Glu Phe Gly Asn Ala  
 238 225 230 235 240  
 240 Asp Ile Leu Glu Ala Thr Tyr Pro Ala Val Ala Lys Arg Leu His Gly  
 241 245 250 255  
 243 Asp Trp Ile Gln Asp Pro Ala Ile Pro Val Val Thr Gly Phe Leu Gly  
 244 260 265 270  
 246 Lys Gly Trp Lys Ser Gly Ala Val Thr Thr Leu Gly Arg Gly Gly Ser  
 247 275 280 285  
 249 Asp Leu Thr Ala Thr Thr Ile Gly Lys Ala Leu Gly Leu Arg Glu Ile  
 250 290 295 300  
 252 Gln Val Trp Lys Asp Val Asp Gly Val Leu Thr Cys Asp Pro Asn Ile  
 253 305 310 315 320  
 255 Tyr Pro His Ala Lys Thr Val Pro Tyr Leu Thr Phe Glu Glu Ala Thr  
 256 325 330 335  
 258 Glu Leu Ala Tyr Phe Gly Ala Gln Val Leu His Pro Gln Ser Met Arg  
 259 340 345 350  
 261 Pro Ala Arg Glu Gly Asp Ile Pro Val Arg Val Lys Asn Ser Tyr Asn  
 262 355 360 365  
 264 Pro Lys Ala Pro Gly Thr Leu Ile Thr Arg Gln Arg Asp Met Asp Xaa  
 265 370 375 380

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/890,813

DATE: 10/09/2001  
TIME: 14:25:06

Input Set : A:\PTO.AMC.txt  
Output Set: N:\CRF3\10092001\I890813.raw

267 Gly Leu Val Val Leu Thr Ser Ile Val Leu Lys Ser Asn Val Thr Met  
268 385 390 395 400  
270 Leu Asp Ile Val Ser Thr Arg Met Leu Gly Gln Tyr Gly Phe Leu Ala  
271 405 410 415  
273 Arg Val Ser Gly Ile Cys Tyr Ile Glu Asp Leu Cys Ile Ser Val Asp  
274 420 425 430  
276 Cys Val Ala Thr Ser Glu Val Ser Val Ser Leu Asp Pro Ser  
277 435 440 445  
279 Lys Ile Trp Ser Arg Glu Leu Ile Gln Gln Ala Ser Glu Leu Asp His  
280 450 455 460  
282 Val Val Glu Glu Leu Glu Lys Ile Ala Ile Val Arg Leu Leu Gln Gln  
283 465 470 475 480  
285 Arg Ala Ile Ile Ser Leu Ile Gly Asn Val Glu Gln Ser Ser Leu Ile  
286 485 490 495  
288 Leu Glu Lys Thr Gly Arg Val Leu Arg Lys Ser Gly Val Asn Val Gln  
289 500 505 510  
291 Met Ile Ser Gln Gly Ala Ser Lys Val Asn Met Ser Leu Ile Val His  
292 515 520 525  
294 Asp Ser Asp Ala Lys Ala Leu Val Glu Ala Leu His Gln Ala Phe Phe  
295 530 535 540  
297 Glu Asp Asp Val Leu Ser Gln Val Glu Ala Glu Asn Leu Leu Val Gly  
298 545 550 555 560  
301 <210> SEQ ID NO: 7  
302 <211> LENGTH: 1953  
303 <212> TYPE: DNA  
304 <213> ORGANISM: Zea mays  
306 <400> SEQUENCE: 7  
307 gaggcaggagg actcagaaaat ggcaatccca gtgcgatcggt ctggccgcgcc ccgcgcgcctc 60  
308 gttccgtcga taccccgccg gagctctggaa catgttcgag gactggcggt cttcggttacc 120  
309 cgaaccgggc ctcgcgggtgc aagagggttg tcaatgggtgg tgcgcgactc caccagccgt 180  
310 cggggccaagc aagcgcacgg cggggacggc gtccttgggg cgcctgttct cggaggggctc 240  
311 gggatggagg gattggggga tcagctcagc gtggatgtga agttcgggggg gtcctcggtg 300  
312 tcgtcgcccg cgaggatggc tgaggatggc ggcctcatcc tgacgttccc cgaggagcgc 360  
313 cccgtcgctcg ttctctctgc catggggaaa accaccaaca accttctct tgctggagag 420  
314 aaggcagtag ggtgtggagt tatccatgtt tctgaaaatcg aagagtggaa tatgtcaaa 480  
315 accctacata tcaagacggt ggatgaacct ggacttccaa gatctgtaat acaagacatg 540  
316 ctagatgaac tggagaact attgaaaggt atcgctatga tgaaaagagct gacgcctagg 600  
317 accagtgtact accttgttcc atttggagaa tgcgttccca ccaggatttt ttctgttttat 660  
318 ttgaacaaaaa ttctgttcaa ggcacggcag tatgacgcatt ttgatattgg tttcattaca 720  
319 actgatgaat ttggtaatgc ggatatctta gaagcaacct atcctgtgt tgcaagagaga 780  
320 cttcatgggg actggataca ggatccacgt atacctgttg ttactgggtt ccttggaaag 840  
321 ggctggaaat ctgggtctgt aactacttta ggccgagggtg ttagtgactt gactgctaca 900  
322 accattggta aagccttggg actgagagaaa attcaggtat gaaaagatgt tgatgggtgt 960  
323 cttacttgtt atccaaatat ctacccacat gcaaagactg ttccatactt aacatttggaa 1020  
324 gaggccacag aacttgctta ttttgggtgtt caggtttgc atccacaatc gatgagacct 1080  
325 gctagagaag gtgatattcc agttagggtt aagaattcat acaaccctaa agctccaggc 1140  
326 acccttatta ccagacaaag agacatggat aaggttgtac taacttagcat agtgcgtcaag 1200  
327 tcaaatgtca ctatgttggc cattgtgagc actcgatgc ttgggtcagta tggtttctg 1260  
328 gcaagggtat ttgctatatt tgaagatcta tgtatctgtt tggattgtgt tgctaccagt 1320

Use of n and/or Xaa has been detected in the Sequence Listing.  
Review the Sequence Listing to insure a corresponding  
specification is presented in the <220> to <223> fields of  
each sequence using n or Xaa.

VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/890,813

DATE: 10/09/2001  
TIME: 14:25:07

Input Set : A:\PTO.AMC.txt  
Output Set: N:\CRF3\10092001\I890813.raw

L:9 M:270 C: Current Application Number differs, Replaced Application Number  
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:31 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:1  
L:31 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:57 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:2  
L:57 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:90 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:3  
L:90 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:153 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:5  
L:153 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:164 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:5  
L:164 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:225 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:6  
L:225 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:264 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:6  
L:264 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:494 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:9  
L:494 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:495 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:9  
L:495 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:667 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:13  
L:667 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:668 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:13  
L:668 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:669 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:13  
L:669 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:670 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:13  
L:670 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:672 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:13  
L:672 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:673 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:13  
L:673 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:712 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:14  
L:712 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:718 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:14  
L:718 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:721 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:14  
L:721 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14

PCT09

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/890,813

DATE: 08/14/2001  
TIME: 11:02:41

Input Set : A:\BB1430 PCT Seq List.txt  
Output Set: N:\CRF3\08142001\I890813.raw

3 <110> APPLICANT: E.I. du Pont de Nemours and Company  
5 <120> TITLE OF INVENTION: Aspartate Kinase  
7 <130> FILE REFERENCE: BB1430 PCT  
C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/890,813  
C--> 10 <141> CURRENT FILING DATE: 2001-08-02  
12 <150> PRIOR APPLICATION NUMBER: 60/172944  
13 <151> PRIOR FILING DATE: 1999-12-21  
15 <160> NUMBER OF SEQ ID NOS: 24  
17 <170> SOFTWARE: Microsoft Office 97

Does Not Comply  
Corrected Diskette Needed

## ERRORED SEQUENCES

1033 <210> SEQ ID NO: 24  
1034 <211> LENGTH: 23  
1035 <212> TYPE: DNA  
1036 <213> ORGANISM: Artificial Sequence  
1038 <220> FEATURE:  
1039 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
oligonucleotide  
1041 <400> SEQUENCE: 24  
1042 qactccatgg caatccccagt gcg  
E--> 1044 18

23

VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/890,813

DATE: 08/14/2001  
TIME: 11:02:42

Input Set : A:\BB1430 PCT Seq List.txt  
Output Set: N:\CRF3\08142001\I890813.raw

L:9 M:270 C: Current Application Number differs, Replaced Application Number  
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:31 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:1  
L:31 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:57 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:2  
L:57 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:90 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:3  
L:90 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:153 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:5  
L:153 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:164 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:5  
L:164 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:225 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:6  
L:225 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:264 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:6  
L:264 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:494 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:9  
L:494 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:495 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:9  
L:495 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:667 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:13  
L:667 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:668 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:13  
L:668 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:669 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:13  
L:669 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:670 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:13  
L:670 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:672 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:13  
L:672 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:673 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:13  
L:673 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:712 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:14  
L:712 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:718 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:14  
L:718 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:721 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:14  
L:721 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:1044 M:254 E: No. of Bases conflict, LENGTH:Input:18 Counted:23 SEQ:24